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Docket No.: LUD-5722/10111925

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Ronaldo A. Nagem, et al.

Application No.: 10/050,552

Group Art Unit: 1641

Filed: January 18, 2002

Examiner: Not Yet Assigned

For: CRYSTAL STRUCTURE OF HUMAN
INTERLEUKIN-22

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
Washington, DC 20231

Dear Sir:

Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

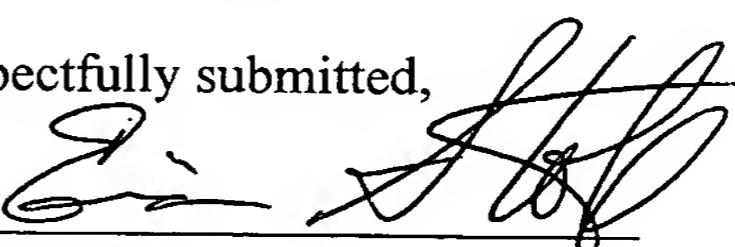
This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned.

A copy of each reference on PTO-1449 is attached.

The Commissioner is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 06-2375, under Order No. LUD-5722/10111925. A duplicate copy of this paper is enclosed.

Dated: May 2, 2002

Respectfully submitted,

By 
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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<i>Complete if Known</i>	
Application Number	10/050,552
Filing Date	January 18, 2002
First Named Inventor	Ronaldo A. Nagem
Art Unit	1641
Examiner Name	Not Yet Assigned
Attorney Docket Number	LUD-5722/10111925

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AA	5,835,382	11-10-1998	Wilson et al.		
AB	6,090,609	07-19-2000	Luo et al.		
AC	6,242,201	06-05-2001	Lane et al.		
AD	6,251,620	06-26-2001	Hatada et al.		
AE	6,273,598	08-14-2001	Keck et al.		
AF	6,303,287	10-16-2001	Kim et al.		
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
BA	WO 00/24758		05-04-2000	Ludwig Institute for Cancer Research		

* Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CA	Table of Contents – special emphasis on COLIGAN et al., <i>Current Protocols in Immunology</i> , 1(2), Chapter 5 (1991)		
CB	COOKSON, W., "The alliance of genes and environment in asthma and allergy", <i>Nature</i> , 402s: B5-B11 (2000)		
CC	DUMOUTIER, L. et al., "Cloning and Characterization of IL-10-Related T Cell-Derived Inducible Factor (IL-TIF), a Novel Cytokine Structurally Related to IL-10 and Inducible by IL-9", <i>J. Immunol.</i> 164: 1814-1819 (2000)		
CD	DUMOUTIER, L. et al., "Human interleukin-10-related T cell-derived inducible factor: Molecular cloning and functional characterization as an hepatocyte-stimulating factor", <i>Proc. Natl. Acad. Sci. U.S.A.</i> 97: 10144-10149 (2000)		
CE	DUMOUTIER, L. et al., "IL-TIF/IL-22: genomic organization and mapping of the human and mouse genes", <i>Genes and Immunity</i> 1: 488-494 (2000)		
CF	ESNOUF, R., "An extensively modified version of MolScript that includes greatly enhanced coloring capabilities", <i>J. Mol. Graph.</i> 15: 133-138 (1997)		
CG	FITZLOFF, J., "The Impact of Biotechnology on Analytical Methodology", <i>Biotechnology and Pharmacy</i> – Chapter 5: 97-115, (edited by Pezzuto et al.) (1993)		
CH	KOTENKO, S., et al., "Identification and functional characterization of a second chain of the interleukin-10 receptor complex", <i>EMBO J.</i> 16(19): 5894-5903 (1997)		
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CJ	KRAULIS, P., "MolScript: a program to produce both detailed and schematic plots of protein structures", <i>J. Appl. Cryst.</i> 24: 946-950 (1991)		

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Filing Date	January 18, 2002
First Named Inventor	Ronald A. Nagem
Group Art Unit	1641
Examiner Name	Not Yet Assigned
Attorney Docket Number	LUD-5722/10111925

CK	LASKOWSKI, R., et al., "Procheck: a program to check the stereochemical quality of protein structures", <i>J. Appl. Cryst.</i> 26: 283-291 (1993)
CL	LEVITT, R., et al., "IL-9 pathway in asthma: New therapeutic targets for allergic inflammatory disorders", <i>J. Allergy Clin. Immunol.</i> 103: 485-491 (1999)
CM	MCLANE, M., et al., "Interleukin-9 Promotes Allergen-Induced Eosinophilic Inflammation and Airway Hyperresponsiveness in Transgenic Mice", <i>Am. J. Respir. Cell Mol. Biol.</i> 19: 713-720 (1998)
CN	MORGAN, B., et al., "Approaches to the Discovery of Non-Peptide Ligands for Peptide Receptors and Peptidases", (edited by Vinick) In: <i>Ann. Rep. Med. Chem.</i> 24: 243-252 (1989)
CO	POLIKARPOV, I., et al., "Set-up and Experimental Parameters of the Protein Crystallography Beamline at the Brazilian National Synchrotron Laboratory", <i>J. Synchrotron Rad.</i> 5: 72-76 (1998)
CP	POLIKARPOV, I., et al., "The protein crystallography beamline at LNLS, the Brazilian National Synchrotron Light Source", <i>Nucl. Instrum. And Methods</i> , A405: 159-164 (1998)
CQ	SIMON, R., et al., "Peptoids: A modular approach to drug discovery", <i>Proc. Natl. Acad. Sci. U.S.A.</i> 89: 9367-9371 (1992)
CR	TEMANN, U., et al., "Expression of Interleukin 9 in the Lungs of Transgenic Mice Causes Airway Inflammation, Mast Cell Hyperplasia, and Bronchial Hyperresponsiveness", <i>J. Exp. Med.</i> 188(7): 1307-1320 (1998)
CS	XIE, M., et al., "Interleukin (IL-22), a Novel Human Cytokine That Signals through the Interferon Receptor-related Proteins CRF2-4 and IL-22R", <i>J. Biol. Chem.</i> 275(40): 31335-31339 (2000)
CT	ZDANOV, A., et al., "Crystal structure of interleukin-10 reveals the functional dimer with an unexpected topological similarity to interferon γ ", <i>Structure</i> 3: 591-601 (1995)

Examiner Signature		Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2Applicant is to place a check mark here if English language Translation is attached.